# CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 20-452

### **MICROBIOLOGY REVIEW**

## **Product Quality Microbiology Review Review for HFD-150**

#### 26 MAR 2003

NDA: 20-452

**Drug Product Name** 

Proprietary: Paraplatin

Non-proprietary: Carboplatin solution

Drug Product Classification: Anti-neoplastic

**Review Number: 2** 

Subject of this Review

Submission Date: 11 OCT 2002

Receipt Date: 15 Oct 2002 Consult Date: 08 JAN 2003

Date Assigned for Review: 17 JAN 2003

Submission History (for amendments only)

Date(s) of Previous Submission(s): 31 MAR 1994 Date(s) of Previous Micro Review(s): 4 OCT 1994

Applicant/Sponsor

Name:

Bristol-Myers Squibb

Address:

P.O. Box 5400

Princeton, NJ 08543-5400

Representative: Noemi C. Guma, Ph.D.

**Telephone:** (609) 818-5759

Name of Reviewer: David Hussong

**Conclusion: APPROVE** 

### **Product Quality Microbiology Data Sheet**

- A. 1. TYPE OF SUPPLEMENT: New NDA amendment
  - 2. SUPPLEMENT PROVIDES FOR: Response to deficiencies in review dated 4 October 1994
  - 3. MANUFACTURING SITE: Bristol Caribbean, Inc. Mayaguez, PR 00708
  - 4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY: 10 mg/mL solution of 10, 15 and 45 mL volumes in vials containing 50, 150 and 450 mg. The 50 mg product is in a \_\_\_\_\_ vial. The 150 mg product is in a \_\_\_\_\_ vial. The 450 mg product is in a \_\_\_\_\_ vial.
  - 5. METHOD(S) OF STERILIZATION:
  - 6. PHARMACOLOGICAL CATEGORY: Anti-neoplastic, cytotoxic
- B. SUPPORTING/RELATED DOCUMENTS: DMF \_\_\_\_\_ datE of update is 3 June 1997).
- C. REMARKS: This amendment responds to review comments from 1994. The original NDA described the aqueous form of a lyophilized product (NDA 19-880). The review of the original NDA noted that these were minor deficiencies and could be addressed as Phase 4 commitments.

The questions shown in the amendment are different from the questions sent in the review. It is not clear where they were altered.

filename: 20-452Rv2.doc

#### **Executive Summary**

- I. Recommendations
  - A. Recommendation on Approvability APPROVE
  - B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable N/A
- II. Summary of Microbiology Assessments
  - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology N/A
  - B. Brief Description of Microbiology Deficiencies N/A
  - C. Assessment of Risk Due to Microbiology Deficiencies N/A
- III. Administrative
  - A. Reviewer's Signature
  - B. Endorsement Block

David Hussong/Microbiologist
Peter Cooney/Microbiology Supervisor

C. CC Block

cc:

Original NDA 20-452 HFD- 150/Division File/NDA 20-452 Page(s) Withheld

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

David Hussong 3/27/03 10:13:09 AM MICROBIOLOGIST

Peter Cooney 3/27/03 11:08:35 AM MICROBIOLOGIST

#### CONSULTATIVE REVIEW TO HFD-150

OCT 5 1994

## DIVISION OF MEDICAL IMAGING, SURGICAL, and DENTAL DRUG PRODUCTS; HFD-160

## Microbiologist's Review #1 4 October 1994

A. 1. NDA 20-452

**APPLICANT** 

Bristol-Myers Squibb Co.
Pharmaceutical Research Institute
5 Research Parkway
P.O. Box 5100
Wallingford, CT 06492-7660

- 2. PRODUCT NAMES: Paraplatin® Carboplatin /
- 3. <u>DOSAGE FORM AND ROUTE OF ADMINISTRATION</u>: A 10 mg/mL solution of 10, 15 and 45 cc volumes in vial presentations containing 50, 150 and 450 mg (respectively) for dilution into a parenteral fluid and intravenous infusion over a 6 to 8 hour period. Dose rates are based on patient surface area.
- 4. METHOD(S) OF STERILIZATION:
- 5. PHARMACOLOGICAL CATEGORY: Anti-neoplastic
- 6. DRUG PRIORITY CLASSIFICATION: 3P
- B. 1. DATE OF INITIAL SUBMISSION: 31 March 1994
  - 2. DATE OF AMENDMENTS: 31 March 1994 and 7 April 1994
  - 3. <u>RELATED DOCUMENTS</u>: NDA 19-880, Paraplatin for Injection (lyophilized) and its Microbiologist's Reviews dates 27 February 1988 and 27 January 1989.
- C. <u>REMARKS</u>: The product represents an aqueous presentation of the same drug for a lyophilized dosage form (NDA 19-880, approved 3 March 89). The original submission for NDA 19-880

Malso manufactured on these filling lines is Taxol (NDA 20-262) which was reviewed in December 1992 (Microbiologist's Review #1) and August 1993 (Microbiologist's Review #2). The lyophilized product contains equal quantities (w/w) of mannitol to drug substance, whereas the aqueous product contains only drug substance and water.

The 2 volumes of Amendment 1 contain a summary and 6 Attachments. These address of stoppers and vials, of filling equipment, and media fills.

D. <u>CONCLUSIONS</u>: The submission is not recommended for approval. However, issues described in the Microbiologist's Letter to the Applicant may be addressed post-approval, pending a commitment by the applicant. For additional details, refer to section "E. Review Notes".

David Hussong, Ph.D.

cc:

Original NDA 20-452

HFD 160/Consult File

HFD 150/Division File

HFD 150/CSO/D.Daproza

HFD 150/Chemist/E.Tolgyesi

drafted by: D.Hussong, 10/04/94 R/D initialed by: P.Cooney, 10/05/94

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